



Schachen Access Bridge, Holderbank

Rebuilding

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«After almost 50 years in service, the old access bridge to our site showed various structural and constructional defects. In addition to a height difference of 11 metres, the bridge also had to span the SBB railway tracks. Fanzun provided us with a well-thought-out basis for decision-making, in which all reasonable options, from renovation to new construction, were designed and evaluated. We opted for a new build, which in the long run is not only more economical but also more attractive in appearance. Win-win.»

Urs Bleisch
Executive Committee Member

Starting situation and idea

Built in 1961, the partly reinforced, 6-field, roughly 150m-long access bridge showed structural and design faults. Repair as well as rebuilding were assessed in a feasibility study. Both variants had to provide unrestricted access to the Schachen industrial zone.

Challenges

The bridge had to cross the SBB railway tracks and span the height difference of roughly 10m between Kantonsstrasse and the Schachen connector. The shift towards the inner side of the curve extended the longitudinal gradient due to which larger terrain adjustments were necessary. The construction exposed several remediation needs.

Approach

The continuous 4-field supports with span widths of 15.8m, 22m, 22m and 15.80m were partly implemented as pre-stressed concrete beams and monolithically connected with the base. The foundation was built on posts and on concrete columns in the vicinity of filled area, which rest on the rock 3m below the terrain.

Developer: LafargeHolcim Ltd.

Completion: 2012

Project type: Rebuilding

Project author: Fanzun AG

Construction costs: CHF 4,8 Mio

Scope of services: Feasibility Studies, Overall Supervision, Project Management, Civil Engineering, Construction Supervision

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